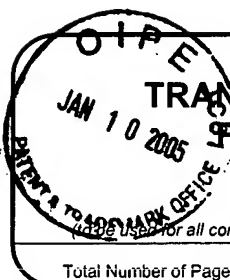
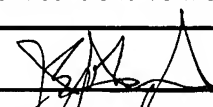
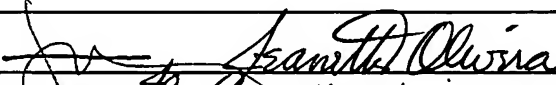
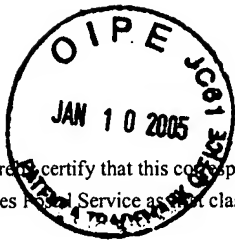


|   |                        |                   |
|---|------------------------|-------------------|
|  | Application Number     | 10/613,519        |
|   | Filing Date            | July 2, 2003      |
|   | First Named Inventor   | Haci, Marc        |
|   | Art Unit               | 3672              |
|   | Examiner Name          | William P. Neuder |
|   | Attorney Docket Number | 022272-000411US   |
| Total Number of Pages in This Submission  |                        |                   |

| ENCLOSURES (Check all that apply)   |  |  |
|---|--|--|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input checked="" type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br><input type="checkbox"/> Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>Return Postcard |
| <input type="checkbox"/> Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.   |  |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |   |          |        |
|--|---|----------|--------|
| Firm Name                                  | Townsend and Townsend and Crew LLP  |          |        |
| Signature                                  |  |          |        |
| Printed name                               | Jonathan E. Jobe, Jr.   |          |        |
| Date                                       | January 4, 2005   | Reg. No. | 28,429 |

| CERTIFICATE OF TRANSMISSION/MAILING   |  |                  |                         |
|---|--|------------------|-------------------------|
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. |  |                  |                         |
| Signature   |  |                  |                         |
| Typed or printed name   | Julio Froeburger   | Jeanette Olivera | Date<br>January 4, 2005 |



1FW

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

PATENT  
Attorney Docket No.: 022272-000411US

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

On January 4, 2005

TOWNSEND and TOWNSEND and CREW LLP

By: *Franklin D. Oliver*

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Marc Hacı

Application No.: 10/613519

Filed: July 2, 2003

For: METHOD OF AND APPARATUS  
FOR DIRECTIONAL DRILLING

Customer No.: 20350

Confirmation No. 4789

Examiner: William P. Neuder

Technology Center/Art Unit: 3672

AMENDMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Office Action mailed October 4, 2004, please enter the following amendments and remarks:

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 5 of this paper.